

ABSTRACT

Continuously variable gear ratio containing five shafts: input, core input, core output, countershaft and output; comprised of three modules: high range, low range and inverter connected between the countershaft and the output.

The high range module consists of core and four multiplicities of gear ratios that extend the range of variability of the core.

The core contains two differentials: the core input shaft drives a shaft of each differential, the core output shaft is driven by another of each differential, the third shaft of each differential is connected to the variator.

The low range module contains two differentials: the input shaft drives a shaft of one of them, the countershaft is driven by another shaft from the other, two multiplicities of gear ratios are positioned between the shafts not connected to the input or the output and the variator is connected between a shaft of the first and one of the second.